

Author Index

Page numbers referring to Abstracts are italicized

- Acton, R.T. 483
 Adner, N. 215
 Åhrén, B. 258
 Ahuja, M.M.S. 412
 Alam, M.J. 381, 389
 Alberti, K.G.M.M. 42, 175, 382, 383, 387, 392
 Albisser, A.M. 299
 Alexander, L. 381
 Alexandre, J. 26
 Allen, J.M. 384
 Allgayer, H. 464
 Allison, S.P. 106
 Altomare, E. 264
 Anceau, A. 486
 Anderson, A. 390
 Andreani, D. 393
 Angeletti, G. 100
 Angiolini, A. 217
 Applegate, G. 397
 Archer, A. 385
 Arima, T. 212
 Armstrong, W.D. 393
 Arnason, A. 297
 Arredondo, G. 493
 Ashcroft, S.J.H. 134
 Asplin, C.M. 426
 Assan, R. 26

 Baba, S. 358
 Bachmann, W. 464
 Bailey, C.J. 386, 395
 Banks, I.G. 128, 381
 Barger, B.O. 483
 Barker, D.J.P. 421
 Barker, H.M. 450
 Barrett-Connor, E. 250
 Basdevant, A. 309
 Baum, J.D. 245
 Beautyman, W. 220
 Becker-Zimmermann, K. 468
 Bellavere, F. 382
 Benn, J. 318
 Bennett, P.H. 412
 Berchtold, P. 468
 Berelowitz, M. 387
 Berger, M. 468
 Berggren, P.-O. 386
 Bessioud, M. 26
 Beverley, P. 393
 Bhathena, S.J. 188
 Bilous, R.W. 175, 382, 384, 388, 398
 Binder, C. 17, 175, 386
 Blazquez, E. 362
 Bliddal, H. 437
 Blix, P.M. 387
 Bloom, S.R. 34, 382, 384, 387, 397, 398
 Bodansky, H.J. 85, 382
 Bohlen, H.G. 344

 Bojsen, F. 437
 Bolli, G. 100
 Bondarenko, M.F. 338
 Bone, A.J. 382
 Bonser, A. 296
 Borda, E.S. 57
 Borsley, D.Q. 382
 Borst, C. 163
 Bottazzo, G.F. 89, 385
 Boulton, A.J.M. 7, 385, 387
 Bowcock, S. 398
 Bowden, V.K. 396
 Bowling, A.C. 450
 Brajkovich, I.E. 184
 Brandenburg, D. 393
 Brederode, J.F.M. van 163
 Brocklehurst, K.W. 382
 Brodsky, J.B. 426
 Bron, A.J. 167
 Brostoff, J. 324
 Brown, B.L. 1
 Brown, D.C. 383
 Brown, J. 273
 Brown, M. 392
 Brown, P.M. 387
 Bruce, L. 393
 Brunetti, P. 100
 Buchanan, K.D. 128, 381, 383, 386, 389
 Budowle, B. 483
 Burrin, J.M. 383, 387

 Calabrese, G. 100
 Calb, I. 96
 Callmer, E. 383
 Campbell, E.A. 383
 Capaldo, B. 387
 Carini, C. 324
 Carlson, L.A. 383
 Cartechini, M.G. 100
 Carter, R. 388
 Carter, R.D. 167
 Castillo, E. del 57
 Ceriello, A. 223, 379
 Chabrier, G. 486
 Chapple, M. 384
 Chawdhury, S. 384
 Chowdhury, B.K. 384
 Christensen, N.J. 318
 Christy, M. 194
 Ciavarella, A. 217
 Clark, A.J.L. 384
 Clarke, B.F. 382
 Cockram, C.D. 387
 Cohen, R.D. 391
 Coleman, D.L. 205
 Collins, A. 398
 Colwell, J.A. 430
 Compagnucci, P. 100
 Cooke, E. 398
 Cooney, M.K. 426

 Costagliola, D. 309
 Crace, C.J. 385
 Craig, B. 389
 Crossley, J.R. 426
 Cudworth, A.G. 85, 382, 385, 388
 Cullen, D.R. 68, 392

 Dandona, P. 388, 396
 Danielsen, R. 297
 Davidson, M.B. 495
 Davies, D. 388
 Davis, T.M.E. 388
 Dello Russo, P. 223, 379
 Delprato, S. 26
 Demacker, P.N.M. 489
 Denys, H. 309
 Di Mario, U. 393
 Ditzel, J. 38
 D'Onofrio, F. 379, 445
 Dobbie, J.G. 445
 Doddridge, M.C. 398
 Dodson, E. 393
 Dodson, G. 384, 393
 Dolgov, V.V. 338
 Dominguez, A. 96
 Dornan, T.L. 167
 Douglas, C.A. 393
 Drummond, V. 385
 Drury, J. 385
 Drury, M.I. 390
 Dryburgh, J.R. 385
 Dunning, A.J. 163

 Edmonds, M.E. 10, 385
 Edwards, S. 398
 Effendić, S. 475
 Ehrlich, R.M. 289
 Eistetter, K. 456
 Elder, E. 389
 Elkeles, R.S. 393
 Ernst, E. 220
 Eschwege, E. 309
 Essex, N. 385
 Ewing, D.J. 382

 Faber, O.K. 17
 Faccio, E. 96
 Faerman, I. 96
 Falholt, K. 254, 386
 Falk, J.A. 289
 Fardeau, M. 309
 Farrer, M. 383
 Fears, R. 285
 Federlin, K. 221
 Feingold, K.R. 118
 Feo, P. de 100
 Ferris, J.B. 391
 Fetkenhour, C.L. 445
 Fiabane, A.M. 390
 Fielden, H. 450

 Flatt, P.R. 386, 395
 Forlani, G. 217
 Fox, M. 391
 Francis, J. 384
 Franco, N. 96
 Frandsen, M. 333
 Frankel, B.J. 292
 Fraser, R.B. 22
 Freychet, P. 276
 Froesch, E.R. 171
 Fugleberg, S. 437
 Fukushima, N. 239
 Fuller, J.H. 412

 Galbo, H. 318
 Gale, E.A.M. 386
 Gammelgaard, J. 333
 Garcia-Webb, P. 296
 Gardner, M.J. 421
 Garland, C. 381
 Gattner, H.G. 393
 Gerlis, L.S. 387, 395
 Ghafari, H. 450
 Ghatei, M.A. 397
 Ghosh, G. 389
 Gill, S.S. 387
 Gillon, K.R.W. 199
 Gimeno, A.L. 57
 Gimeno, M.F. 57
 Giugliano, D. 223, 379
 Glynn, A. 388
 Go, R.C.P. 483
 Goldgewicht, C. 309
 Gonzalez, A.M. 394
 Gordiano, F. 393
 Gorsuch, A.N. 85
 Grab, B. 412
 Grabauskas, V. 412
 Gragnoli, G. 224, 496
 Greaves, M. 387
 Green, A. 392
 Gries, F.A. 468
 Grill, V. 475
 Grodsky, G.M. 292

 Hadden, D.R. 381, 390
 Hadley, L.A.-A. 180
 Haitas, B. 388
 Hales, C.N. 382, 392
 Hankins, K.D. 344
 Hanning, I. 42
 Hansen, B. 61
 Hansen, J.A. 426
 Hardisty, C.A. 385
 Harno, K. 47
 Harris, A. 397
 Harrison, L.C. 233
 Harrower, A.D.B. 392
 Hedding, L.G. 386
 Heine, R. 392
 Heining, D. 273

- Heldt, A.M. 292
 Helgason, T. 297
 Hellerström, C. 382
 Hepp, K.D. 464
 Herberg, L. 381, 468
 Herold, A. 391
 Hillson, R.M. 391
 Hilsted, J. 318
 Hockaday, T.D.R. 391
 Hoinville, E. 389
 Holder, D. 34
 Home, P.D. 42, 175, 387
 Honda, A. 375
 Horiuchi, N. 154
 Hornes, P.J. 389
 Howell, S.L. 301
 Howton, M.M. 118
 Hulmi, S. 378
 Hutton, J.C. 382, 392
- Iavicoli, M. 393
 Iles, R.A. 391
 Isles, T.E. 390
 Itin, A. 233
- Jackson, C.A. 387
 Jackson, R.A. 387
 Jarrett, J. 395
 Jarrett, R.J. 73, 79, 388, 412, 493
 Jaspan, J. 387
 Jenkins, A.L. 450
 Jenkins, D.J.A. 450
 Jenkins, P.A. 245
 Jeremy, J.Y. 388
 Johnston, C. 388, 397
 Jonasson, F. 297
 Jones, D.B. 388
 Jones, R.H. 395
 Joplin, G.F. 184
 Judd, S.L. 396
 Jung, R.T. 384
 Juntunen, J. 158
- Kaijser, L. 383
 Kalant, N. 239
 Kang, S.S. 285
 Kasuga, M. 233
 Keen, H. 73, 79, 175, 382, 384, 385, 388, 392, 395, 397, 398, 412
 Keen, W.L. 384
 Kelly, U. 393
 Kelly, W.F. 388
 Kennedy, A.L. 390
 Kennedy, J.D. 395
 Kennedy, L. 389
 Kerr, J.I. 389
 Khan, S.R. 393
 Khassis, S. 111
 Khoury, E.L. 89
 Kingsley, R. 389
 Kjærgaard, J.-J. 38
 Kohner, E. 384
 Kohner, E.M. 389, 390
 Kolendorf, K. 437
 Konijnendijk, W. 122
- Kosaka, K. 412
 Kramer, C. 445
 Krarup, T. 17
 Krolewski, A.S. 412
 Kromann, H. 194
 Kühl, C. 389
 Kuno, S. 375
 Kuret, J. 273
 Kurtz, A.B. 324, 383, 389
 Kuusi, T. 47
 Kuyumjian, J. 239
 Kuzuya, T. 372
 Kwaan, H.C. 445
- Laar, A. van't 489
 Laatikainen, L. 327
 Laatikainen, T. 327
 Laing, I. 388
 Lanøe, J.L. 309
 Larinkari, J. 327
 Lassmann, V. 264
 Lauke, H. 221
 Lauritzen, T. 386
 Lawson, P. 390
 Lazzari, M.A. 57
 Leaver, P.K. 389
 Lee, S.M. 349
 Lee, Y.C. 387
 Lees, A.M. 430
 Leeuw, I. de 492
 Leibovici, D. 239
 Leinonen, H. 158
 Lermmark, Å. 61, 194
 LeRoy, E.C. 430
 Levin, G.E. 180
 Levin, R.D. 445
 Lindsey, N.J. 391
 Lockerbie, L. 383
 Logan, R.L. 383
 Loizou, S.A. 184
 Lorano Castañeda, O. 493
 Lopes-Virella, M.F. 430
 Ludwig, G. 456
 Lund, B. 437
 Lundquist, L. 258
 Lutterman, J.A. 489
 Lutz, W. 383
 Lyons, T.J. 390
- MacFarlane, I.A. 397
 Mackintosh, D. 397
 MacPherson, J.N. 390
 Madsbad, S. 17
 Madsen, H. 38
 Mahler, R. 384
 Maisey, M. 398
 Mann, J.I. 167, 388
 Marchesini, G. 217
 Markanday, S. 389
 Marks, V. 395, 480
 Markwick, J.R. 85
 Marliss, E.B. 225
 Marsden, P. 395
 Martin, B.T. 390
 Mäser, E. 221
 Mashiter, K. 184
 Massi-Benedetti, M. 42
- Mateo-de-Acosta, O. 412
 Mather, H.M. 180
 Matikainen, E. 158
 Matsuda, A. 372
 Matsumori, A. 375
 Matthews, J.A. 383, 387
 Mattock, M. 388
 Maxwell, P. 381
 Mayfield, R. 430
 Mbanya, J.N. 285
 McCann, V.J. 441
 McCartney, P. 73, 79
 McLaren, E.H. 390
 McLean, P. 394
 McNicol, G.P. 396
 Meezan, E. 276
 Metz, F. 309
 Middleton, P.J. 289
 Mikhailidis, D.P. 388
 Miki, E. 412
 Milner, R.D.G. 392
 Mitchell, D. 394
 Moloney, J.B.M. 390
 Molsted-Pedersen, L. 389
 Monson, J.P. 391
 Morell, B. 171
 Morgan, L. 387
 Mörönen, P. 327
 Morris, K. 396
 Mullen, Y. 273
 Murakami, K. 358
- Nabarro, J.D.N. 383, 387, 389
 Nabeya, N. 375
 Nagaoka, K. 375
 Nagashima, H. 212
 Nakata, K. 212
 Nakhooda, A.F. 225
 Nedergaard, M. 194
 Neilson, J.M.M. 382
 Nerup, J. 194
 Nestel, P.J. 148
 Newman, P. 392
 Newton, D. 391
 Newton, R.W. 390
 Nielsen, J.H. 61
 Nikkilä, E.A. 47
 Nisbet, J.A. 180
 Noirot, S. 285
 Nolan, M.S. 391
 North, M.L. 486
 Nygren, A. 215
 Nylén, A. 475
- Oakley, N.W. 180
 O'Dea, K. 148
 O'Hare, J.A. 391
 O'Sullivan, D.J. 391
 Okada, Y. 212
 Okazaki, S. 212
 Oleesky, S. 388
 Oliver, M.F. 383
 Olsson, A.G. 383
 Ørskov, H. 333
 Östenson, C.-G. 386, 475
 Owens, D.R. 42
 Owerbach, D. 61
 Ozaki, S. 239
- Paisey, R. 493
 Palmer, J.P. 426
 Paoli, C. 496
 Parekh, P. 392
 Parsons, J.A. 383, 385
 Parving, H.-H. 318, 333, 494
 Paton, R.C. 396
 Penn, E.J. 392
 Perkins, C.M. 315
 Pernet, A. 392
 Pesonen, K. 327
 Peters, T.J. 384
 Pickup, J.C. 175, 388, 392, 398
 Pierluissi, J. 134
 Pierluissi, R. 134
 Pilkington, T.R.E. 180
 Pisi, E. 217
 Pitkänen, E. 378
 Podesta, H.A. 96
 Polak, J.M. 397
 Ponchner, M. 392
 Potter, J.M. 68, 392
 Poussier, P. 225
 Power, C. 421
 Pozzilli, P. 393
 Pramming, S. 386
 Prescott, R. 394
 Preston, F.E. 387
 Pujol-Borrell, R. 89
 Pyke, D.A. 388
- Railton, R. 392
 Ranta, T. 327
 Ray, C.G. 426
 Razumny, J. 96
 Recant, L. 188
 Reckless, J.P.D. 68
 Redmond, A.O.B. 389
 Reeves, W.G. 106, 393
 Regeur, L. 17
 Reitnauer, P.J. 483
 Rendel, S.E.H. 393
 Repin, V.S. 338
 Reynolds, C. 384
 Riemersma, R.A. 383
 Rijk, L.G. de 163
 Roberts, V.C. 10
 Robinson, L. 397
 Rodger, J.C. 392
 Root, M. 388
 Roseman, J.M. 483
 Rosenstock, J. 184
 Rossner, S. 383
 Rubenstein, A.H. 387
 Ru-chang, Bi 393
- Sachse, G. 221
 Sagel, J. 430
 Sagor, G.R. 397
 Sakurami, T. 375
 Salminen, E. 480
 Salminen, S. 480
 Sandahl Christiansen, J. 333, 494
 Santeusano, F. 100
 Santos, A. 362
 Sarson, D.L. 34

- Sasaki, A. 154
 Savage, M. 385
 Savas, C. P. 391
 Scarpello, J. H. B. 7, 393
 Schienger, J. L. 486
 Schliack, V. 412
 Schüttler, A. 395
 Schwenen, M. 468
 Scobie, I. N. 394, 396
 Sensi, M. 393
 Sgambato, S. 223, 379
 Shafrir, E. 111
 Shenfield, G. M. 441
 Shepherd, G. A. A. 42
 Sherer, G. K. 430
 Signorini, A. M. 496
 Sima, A. A. F. 225
 Simon, M. C. 264
 Simpson, N. E. 289
 Siperstein, M. D. 118
 Slater, D. N. 391
 Sloan, J. M. 128, 381
 Smith, G. D. 384
 Smith, J. A. 391
 Smith, M. G. 199
 Smith, S. A. 394
 Smith, S. E. 394
 Smith, S. S. 188
 Sochor, M. 394
 Sönsen, P. H. 387, 394, 396
 Son, H. Y. 394
 Spargo, R. M. 148
 Spencer, K. M. 85
 Stalenhoef, A. R. H. 489
 Steel, J. M. 394
 Steer, K. A. 394
 Stephan, F. 486
 Sterin-Borda, L. 57
 Stevenson, R. W. 222, 383
 Stickland, M. H. 315
 Stott, R. 395
 Stout, R. W. 52
 Strakosch, C. R. 395
 Strubbe, J. H. 354
 Suarez, L. 250
 Süsstrunk, H. 171
 Suzuki, T. 154
 Swanston-Flatt, S. K. 395
 Swenne, I. 382, 386
 Swift, P. G. F. 395
 Tabbi-Anneni, A. 26
 Tan, K. 395
 Tang-Fui, S. 395
 Taniguchi, H. 358
 Targarelli, I. 496
 Tarli, P. 496
 Taskinen, M.-R. 47
 Tatnell, M. A. 395
 Taylor, A. M. 396
 Taylor, R. H. 450
 Tchobrousky, G. 309
 Teuscher, A. 412
 Tey, B. H. 394, 396
 Thompson, D. A. 396
 Thomson, M. 383
 Thorsteinsson, B. 437
 Tiengo, A. 26
 Tindall, H. 396
 Tjokresetio, R. 441
 Toledo-Pereyra, L. H. 298
 Tolley, S. 384, 393
 Tomlinson, D. R. 199
 Tomlinson, S. 1
 Tooke, J. E. 396
 Traisman, H. S. 445
 Travis, P. 382
 Triomphe, A. 309
 Tsatsoulis, K. 396
 Turner, R. C. 167, 245
 Twomey, B. M. 391
 Twomey, J. A. 397
 Tyhurst, M. 301
 Tymms, D. J. 396, 397
 Uttenthal, L. O. 387, 397
 Vague, Ph. 264
 Valles, V. 493
 Valverde, I. 26
 Van Gaal, L. 492
 Van Obberghen, E. 233
 Vannini, P. 217
 Varghese, M. 381
 Vergani, D. 397
 Vesely, D. L. 269
 Viallettes, B. 264
 Viberti, G. C. 175, 382, 388, 397, 398
 Vovan, L. 264
 Waldius, G. 383
 Wales, J. K. 315
 Walford, S. 106
 Walker, S. 1
 Walsh, L. J. 289
 Walton, C. 388, 397
 Ward, J. D. 7, 141, 385, 387
 Ward, R. H. 426
 Watkins, P. J. 10, 385
 Weaver, J. A. 390
 Webster, J. 384, 398
 Welborn, T. A. 296
 Welinder, B. 61
 Werther, G. A. 245
 West, K. M. 412
 Whichelow, M. J. 398
 Wiegman, J. B. 122
 Wieling, W. 163
 Wiley, M. H. 118
 Wilkins, S. D. 188
 Williams, G. 392, 398
 Williams, R. H. 426
 Wiseman, M. J. 398
 Wohltmann, H. 430
 Wolever, T. M. S. 450
 Wolf, E. 85, 385, 388
 Wolf, H. P. O. 456
 Wolters, G. H. J. 122
 Wong, E. 493
 Wood, S. M. 34, 398
 Worth, R. 385, 387
 Yamabuki, T. 212
 Yeats, J. C. 397
 Yudkin, J. 285
 Zahn, H. 393
 Zaikina, O. E. 338
 Zega, G. 100
 Ziegler, W. H. 171
 Zimmet, P. 399
 Zoli, M. 217
 Zuccarini, O. 393

Subject Index

Key: a Abstract, b Book Review, c Correspondence, ms Multinational Study, r Review

- A cell (see also Glucagon)
 - function in pancreatectomised subjects 21
 Abstracts, British Diabetic Association 381
 Acarbose - control - Type 2 diabetes 221c
 - regulatory peptides in rat 397a
 Acetylator status - and diabetic neuropathy 441
 Adrenaline - ketogenesis - rat 383a
 Alanine - control - Type 1 diabetes 217
 Albumin - transcapillary escape in diabetes 391a
 Aldosterone - potassium - Type 2 diabetes 184
 Amino acid - levels in diabetic and non-diabetic pregnancy 392a
 Anaphylaxis - highly purified pork insulin 324
 Animal model - BB Wistar rat 381a
 - ob/ob mouse - inappropriate hyperglucagonaemia 386a
 - Type 1 diabetes 225r
 Aortic endothelium - experimental diabetes - rabbit 343
 Apolipoprotein C - in Type 2 diabetes 489
 Aprotinin - use in brittle diabetes 398a
 Arachidonic acid - platelets of diabetic patients 388a
 Arteriovenous anastomoses - the diabetic leg 141r
 Arteriovenous shunting - and venous oxygenation 6
 - in the neuropathic diabetic foot 6
 Atherosclerosis - development in diabetes 51
 - experimental diabetes - rabbit 343
 Australian Aborigines - carbohydrate - lipid metabolism 148
 Autonomic neuropathy, diabetes - 24h heart rate 382a, 163
 - anhidrosis - sympathetic chain 96
 - haemodynamic change - exercise 318
 - orthostatic reflexes 163
 Axonal transport - noradrenergic transmission - rat 199
 B cell - function in newly diagnosed Type 1 diabetes 16
 Basement membrane - capillary permeability in muscle 158
 BB Wistar rat - Type 1 diabetes model 225r
 Bedford study - glucose intolerance and diabetes 73
 - risk indices for coronary heart disease 73
 - ten year follow up 73, 79
 Biguanides - somatomedin stimulated sulphate uptake 396a

- Blood flow – in neuropathic diabetic foot 9
 Blood flow velocity – diabetic neuropathy 141 r
 Branched chain amino acids – control
 Type 1 diabetes 217
 Brittle diabetes – insulin degradation
 subcutaneous tissue 392 a
 – response to subcutaneous apromin 398 a
 C peptide – and insulin secretory capacity 296 c
 – antibodies induced by bovine insulin 393 a
 – arginine infusion – in pancreatectomized patients 21
 – in newly diagnosed Type 1 diabetes 16
 – predicting insulin requirement 396 a
 – Type 1 diabetic children 245
 Calcium uptake – glucose stimulation – rat 122
 Calmodulin – and insulin secretion 1 r
 – and protein phosphorylation 1 r
 – insulin secretion and phenothiazines 1 r
 – islet content – hypophysectomy – rat 134
 Capillary permeability – diabetes – human muscle 158
 Catecholamines – Type 1 diabetes 100
 Chinese hamster, diabetic – insulin and glucagon 292
 Cholesterologenesis – diabetic rat 118
 Cholesterol – according to dietary randomisation 391 a
 – subtraction – relation to type of diabetes 393 a
 Chronic alcoholics – insulin effect 215
 Cold adaption – thermogenesis – mice 205
 Community care – diabetes in Croydon 385 a
 Complement factor C4 – in Type 1 diabetes 397 a
 Concanavalin A – binding to erythrocytes 212
 Continuous subcutaneous insulin infusion (See CSII)
 Coronary artery – constriction – prostacyclin – dog 56
 Coronary heart disease – Bedford study 79
 Coxsackie virus – B3 B4 titres in Type 1 diabetes 426
 CSII – assessment of accidental cessation 175
 – compared with multiple insulin injections 387 a
 – effect on nerve conduction in Type 1 diabetes 397 a
 – fibrinolytic response in Type 1 diabetes 387 a
 – improved nutritive blood flow 396 a
 – nephropathy in Type 1 diabetes 378
 Current views on hypoglycaemia and glucagon 497 b
 Cyclic AMP – inhibitor – DNA synthesis – arterial cells 51
 – – DNA synthesis – smooth muscle 51
 Deep breathing test – cardiac vagal dysfunction in diabetes 394 a
 Dextrostix – time interval before reading 394 a
 Diabetes in Southall Indians 384 a
 Diabetic angiopathy in children 138 b
 Diabetic anhidrosis – histological study 96
 Diabetic control – alanine – Type 1 diabetes 217
 – effect on thyroid hormones 486
 – fibroblast lipoprotein degradation 430
 – haemoglobin A_{1c} by isoelectric focussing 315
 – insulin antibodies 107
 – retinopathy in diabetic pregnancy 327
 – risks of hospital and other supervision 309
 Diabetic foot (see neuropathic diabetic foot)
 Diabetic neuropathic oedema – treatment with ephedrine 385 a
 Diabetic syndrome – BB Wistar rat – Type 1 model 225 r
 Diet – Australian Aborigines – traditional/urban 148
 – glucose uptake after glucose load or mixed meal 387 a
 – guar gum – in Type 1 diabetes during pregnancy 389 a
 – high fibre – diabetic nephropathy – mouse 349
 – sucrose effect on liver and kidney metabolism 285
 Disposable equipment – cost in West Scotland 1981 390 a
 Dopamine – ketogenesis – rat 383 a
 Doppler technique – for assessing blood flow 9
 Endothelial cells – cyclic AMP inhibition of DNA synthesis 51
 Entero-insular axis – effect of GIP on insulin release 33
 Ephedrine – treatment for diabetic oedema 385 a
 Epidemiology – Bedford study 73, 79
 – CPAF in diabetic and non-diabetics 395 a
 – diabetes in Southall Indians 384 a
 – glucose tolerance – Stockholm – Edinburgh 383 a
 – incidence of diabetes between ages 18–50, 421
 – Japan – diabetes 372, 155
 – retinopathy and diabetes – Iceland 297 c
 – review of Type 2 diabetes 399 r
 – supervision of diabetic control 309
 – Type 1 diabetes in Toronto 289
 Exercise – effect on glucose tolerance in Zucker rat 468
 – effect on insulin absorption 171
 – haemodynamic changes – autonomic neuropathy 318
 – residual pancreatic function – Type 1 diabetes 382 a
 Experimental diabetes – animal model – Wistar rat 381 a
 – atherosclerosis – rabbit 343
 – effect on hexokinase activity – rat 394 a
 – kidney growth – pentose pathway 394 a
 – liver and kidney metabolism – rat 285
 – microangiopathy – rat 344
 – pancreas transplantation – rat 354
 – sex hormones – rat 194
 Extraparacrine insulin – human parotid gland 358
 Fluorometric micro-method – islet calcium in rat 122
 Forced breathing – autonomic neuropathy – heart rate 163
 Gestational diabetes – intermediary metabolites – diet 68
 GFR – and glycaemic control in Type 1 diabetes 398 a
 – kidney size – Type 1 diabetes – growth hormone 333
 – effect on insulin release – man 33
 GIP – release in cystic fibrosis after elemental meal 389 a
 – Type 2 diabetes 381 a
 Glibenclamide – effect on guanylate cyclase activity – rat 269
 Glomerular barrier – effect of pressure, charge and pores 397 a
 Glomerular filtration rate (see GFR)
 Glucagon – and hyperkalaemia in decompensated diabetes 492 c
 – as a counter-regulatory hormone 100
 – function in pancreatectomised subjects 21
 – immunoreactivity in dystrophic mice 258
 – inappropriate levels in ob/ob mouse 386 a
 – receptors – regulation of – rat 362
 – release – Chinese hamster 292
 – secretion – calcium dependency – glibenclamide 475
 – stimulation of hepatic adenylate cyclase in rat 464
 Glucose clamp – assessing insulin sensitivity 392 a
 – comparison porcine and human insulin 41
 – counter-regulatory hormones – Type 1 diabetes 100
 Glucose measurement – self collection of capillary blood 384 a
 Glucose tolerance – Edinburgh – Stockholm 383 a
 Glucose uptake – liver – peripheral – exogenous insulin 385 a
 – peripheral – glucose load – mixed meal 387 a
 – superficial tissue – Type 2 diabetes 239
 Glucose, intraperitoneal – microangiopathy – rat 344
 Glycaemia, post-prandial – effect of rate of digestion 450
 Glycaemic effect – of fructose, sucrose in Type 1 diabetes 394 a
 Glycosylated haemoglobin – after autoclave hydrolysis 388 a
 – concanavalin A – diabetes mellitus 212
 – diabetic neuropathy 385 a
 – fast component – rat 264

- isoelectric focussing 315
- measurement at altitude 493 c
- opium addiction 379
- pregnancy 37
- reticulocyte count 223 c
- Glycosylated serum protein - diabetic control 224 c
- Growth hormone - kidney size - Type 1 diabetes 333
- response to TRH - LH - in Type 1 diabetes 397 a
- Guanylate cyclase - effect of glibenclamide in rat 269
- Haemochromatosis** - endocrinological abnormalities 388 a
- HbA_{1c} (see glycosylated haemoglobin)
- HDL cholesterol and fasting insulin levels 493 c
- Heart disease, diabetic - abnormal cold pressor test 392 a
- Heart rate - diabetic autonomic neuropathy 382 a
- Hepatic adenylate cyclase - glucagon stimulation - rat 464
- Hepatic cirrhosis - endocrinological abnormalities 388 a
- Hepatic cyclic AMP - glucagon receptors 362
- Hexokinase - activity in different tissues in rat 394 a
- HLA - and diabetic retinopathy in Type 1 diabetes 297 c
- Type 1 diabetes - coxsackie virus - Japan 375
- Type 1 diabetes - DR system in identical twins 388 a
- Type 1 diabetes in black subjects 385 a
- BF system in diabetes 85
- Home monitoring - blood versus urine tests 387 a
- preference for blood strip testing 396 a
- self-collection of capillary blood 384 a
- Hormones (see individual hormones)
- Hormones - counter-regulatory in Type 1 diabetes 100
- Host defence - in Type 1 diabetes 393 a
- Human placental lactogen - diabetic pregnancy - retinopathy 327
- Hyperglycaemia - in chronic alcoholics 215
- potassium - Type 2 diabetes 184
- Hyperkalaemia - and glucagon in decompensated diabetes 492 c
- Hypertension - diabetes - cigarette smoking 79
- Hypertriglyceridaemia - apolipoproteins in Type 2 diabetes 489
- Hypoglycaemia - in relation to diabetic control 309
- Incretin** - GIP action on insulin release 33
- Insulin - exogenous - liver and peripheral glucose uptake 385 a
- human - 2Zn crystal structure 384 a
- activity - glucose clamp 41
- metabolic response - man 388 a
- processing - glutathione-insulin transhydrogenase 384 a
- specific IgE antibodies - Type 1 diabetes 254
- Insulin absorption - rest and exercise 171
- Insulin aggregation - and infusion pumps 494 c
- Insulin anaphylaxis - highly purified porcine insulin 324
- Insulin antibodies - effect on diabetic control 107
- intracellular muscle enzymes in pigs 386 a
- to protamine 389 a
- Insulin biosynthesis - long-term regulation - rat 382 a
- Insulin concentration - disappearance in normal subjects 437
- Insulin degradation - renal glomeruli - rat 276
- subcutaneous 221 c
- subcutaneous tissue - diabetes 392 a
- Insulin dimer - interaction with insulin in dog 395 a
- Insulin escape curves - myth of rebound hyperglycaemia? 386 a
- Insulin gene - polymorphism 61 r
- Insulin infusion - counter-regulatory hormones 100
- effects of deliberate cessation 175
- metabolic normalisation in dogs 383 a
- Insulin injections - multiple - effect on control 309
- Insulin preparations - bovine, porcine and human 61 r
- Insulin receptor - in Type 1 diabetes 383 a
- insulin-induced down-regulation 233
- Insulin release - after elemental meal in cystic fibrosis 389 a
- Chinese hamster 292
- hypophysectomy - rat 134
- Insulin responsiveness - glucose - NEFA - Type 2 diabetes 239
- Insulin secretion - after pancreas transplantation - rat 354
- calcium dependency - glibenclamide 475
- calcium-dependent protein phosphorylation 382 a
- capacity with C-peptide level 296 c
- effect of calcium 1 r
- effect of calmodulin 1 r
- effect of GIP - man 33
- interrelation with glucagon secretion 188
- microfilaments and microtubules 301 r
- myosin light chain kinase activity - rat 392 a
- Insulin sensitivity - assessed by glucose clamp 392 a
- Insulin structure - despentapeptide form 393 a
- Insulin therapy - inducing antibodies to C-peptide 393 a
- prediction of need 390 a
- secondary failure - metabolic changes 390 a
- U100 insulin and absorption 395 a
- Insulin-like reactivity - human parotid gland 358
- Insulinoma - resection causing transient diabetes in rat 395 a
- Intermediary metabolism and its regulation 138 b
- Intermediary metabolites - during human pregnancy 68
- Islet - calcium - micro-method in rat 122
- calcium content in rat 122
- effect of hypophysectomy 134
- glucose metabolism - cyclic AMP - rat 134
- insulin immunisation - guinea pig 386 a
- regulation of insulin biosynthesis 382 a
- Islet cell antibody - cytoplasmic - Type 1 diabetes 89
- Islet transplantation - fast haemoglobin component 264
- Japan** - epidemiological study in diabetes 154
- Joint contractures - early indicator of retinopathy? 384 a
- Ketogenesis** - effect of catecholamines - rat 383 a
- Kidney growth - experimental diabetes - rat 394 a
- Kidney size - and function 494 c
- Lactate transport** - inhibition into rat hepatocyte 391 a
- Lactation - in diabetic women 398 a
- Lipoprotein - degradation by human fibroblasts 430
- diabetic retinopathy 167
- in obese Type 2 diabetes 46
- relation to type and control of diabetes 393 a
- Lipoprotein lipase - activity in obese Type 2 diabetes 46
- Lymphocyte subsets - in Type 1 diabetes 393 a
- Magnesium** - diurnal profiles in diabetes 180
- Maternal-fetal fat transport - pregnant rat 111
- Mevalonate - metabolism in diabetic rat 118
- Microangiopathy - albumin transcapillary escape in diabetes 391 a
- plasma glucose and risk factors 412 ms
- streptozotocin induced - rat 344
- Miniature insulin infusor - dog 383 a
- Mouse - animal model - diabetic nephropathy 349
- Muscular dystrophy - glucagon - mice 258
- Nephropathy, diabetic** - CSII 378
- fibre diet - mouse 349
- Neuropathic diabetic foot - arteriovenous shunting 6
- blood flow 9
- ulceration 6, 9
- venous oxygenation 6
- Neuropathy, diabetes - and acetylator status 441

- blood flow velocity 141 r
- CSII - fibrinolytic response 387 a
- glycosylated haemoglobin 385 a
- Neurotensin - mechanism of release 387 a
- Noradrenaline - axonal transport - rat 199
- Noradrenaline - ketogenesis - rat 383 a
- Nutrition and the diabetic child 138 b

- Obesity** - non-shivering thermogenesis 205
- Oestradiol - diabetic pregnancy - retinopathy 327
- Opium addiction - glycosylated haemoglobin 379
- Oral hypoglycaemic agent failure - metabolic changes - insulin 390 a

- Pancreas transplant** - exocrine drainage 391 a
 - insulin secretion - rat 354
 - intrasplenic - rat 128
 - pregnant diabetic rat 273
 - selection criteria 298 c
 - transplant and the artificial pancreas 299 c
- Pancreatectomy - alpha cell function 25
- Pancreatic islets (see Islets)
- Parotid gland - insulin-like immunoreactivity 358
- Perinatal mortality - diabetic pregnancy in Kenya 21
- PGI₂ - generation in pancreatectomised dogs 56
- Phenylalkyloxirane - a new class of hypoglycaemic agent 456
- Plasma glucose - fasting - seasonal - man 250
- Plasma renin activity - Type 2 diabetes 184
- Platelet - cyclic AMP inhibition of DNA synthesis 51
- Platelet regeneration - relation to retinopathy 396 a
- Potassium - action on glucagon secretion - rat 188
- hyperglycaemia - Type 2 diabetes 184
- Pregnancy, diabetic - amino acid levels 392 a
 - effect of diet
 - glycosylated haemoglobin 37
 - glycosylation index 37
 - guar gum in Type 1 diabetes 389 a
 - in developing countries 21
 - metabolic control and retinopathy 327
 - North Staffordshire Hospital 381 a
 - placental transport - rat 111
 - transplantation fetal pancreas - rat 273
- Type 1 diabetes - retina 390 a
- Progesterone - diabetic pregnancy - retinopathy 327
- Properdin Factor B - in black Type 1 diabetes 483
- Prostacyclin - coronary arteries - diabetic dogs 56
- Prostacyclin synthesis - effect of diabetic environment - rat 388 a
- Protamine antibodies - in protamine containing insulin 389 a

- Radioallergosorbent test (RAST)** - RAST inhibition 324
- Rat hepatocytes - glucagon receptors 362
- Rebound hyperglycaemia - myth in Type 1 diabetes 386 a
- Recombinant DNA - insulin gene - polymorphism 61 r
- Red cell volume - diabetes 220 c
- Regulatory peptides - effect of acarbose in rat 397 a
 - in Type 2 diabetes 398 a
- Renal glomerulus - insulin degradation 276
- Renal plasma flow - growth hormone - Type 1 diabetes 333
- Reticulocyte count - diabetes - glycosylated haemoglobin 223 c
- Retinopathy, diabetic - HLA in Iceland 297 c
 - low density lipoprotein 167
 - natural history of maculopathy 390 a
 - photocoagulation in maculopathy 389 a
 - platelet hyperaggregation - 445
 - relation of joint contractures 384 a
 - severe in adolescents 389 a
 - effect of type of diabetes? 382 a
- Seasonal variation - glucose concentration - man 250
 - Type 1 diabetes in Toronto 289
- Secondary failure - metabolic characteristics - insulin 390 a
- Serum protein - glycosylation in relation to glucose loads 495 c
- Somatomedin - biguanide action on sulphate uptake 396 a
- Somatostatin secretion - calcium dependency - glibenclamide 475

- The diabetic child** 497 b
- Thermogenesis - diabetic-obesity syndromes 205
- Thyroid hormones - how affected by diabetic control 486

- Transient diabetes - after resection of rat insulinoma 395 a
- Type 1 diabetes - A variable latent period? 390 a
 - Bf system 85
 - C-peptide and good glycaemic control 16
 - children 245
 - children - platelet hyperaggregation 445
 - cold pressor test in heart disease 392 a
 - CSII - nephropathy 378
 - nerve conduction 397 a
 - versus many insulin injections 487 a
 - Coxsackie B3 B4 virus titres 426
 - DR system in identical twins 388 a
 - erythrocyte, monocyte insulin receptors 383 a
 - exercise 382 a
 - with autonomic neuropathy 318
 - glycaemic effect of sucrose and fructose 394 a
 - guar gum during pregnancy 389 a
 - HLA and retinopathy - Iceland 297 c
 - host defence mechanisms 393 a
 - incidence in Toronto 289
 - Japan - family history 372
 - kidney size - function - growth hormone 333
 - low C4 - inherited defect? 397 a
 - lymphocyte subsets - monoclonal antibody 393 a
 - murine model - sex hormones 194
 - myth of rebound hyperglycaemia 386 a
 - properdin factor B in black subjects 483
 - rat model 225 r
 - retinal changes in pregnancy 390 a
 - retinopathy - platelet regeneration 396 a
 - specific IgE antibodies 254
 - susceptibility gene in black subjects 385 a
- Type 2 diabetes - acarbose 221 c
 - C-peptide indicating insulin 396 a
 - effect of regulatory peptides 398 a
 - epidemiological review 399 r
 - forearm insulin responsiveness 239
 - GIP response 381 a
 - Japan - family history 372
 - potassium - aldosterone 184
- Urine glucose test - single and double voided 378 a

- Virus, Coxsackie** - HLA - Japan 375
 - in Type 1 diabetes 426

- Xylitol** - effect on insulin and GIP secretion 480

Responsible for the text: Prof. A. G. Cudworth, Department of Diabetes, Medical Unit, King George V Building (5th Floor), St. Bartholomew's Hospital, London EC1A 7BE, England

Responsible for advertisements: E. Lückermann, B. Schultz, Kurfürstendamm 237, D-1000 Berlin 15. Springer-Verlag Berlin Heidelberg New York

Printed in Germany by aprinta, Wemding

Copyright © Springer-Verlag GmbH & Co. KG, Berlin Heidelberg 1982

Diese Ausgabe enthält eine eingelebte Beilage vom Springer Verlag, Berlin, Heidelberg, New York.

It is a fundamental condition that submitted manuscripts have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproduction of similar nature, and translations.

Photographic reproduction, microform, or any other reproduction of text, figures, or tables from this journal is prohibited without permission obtained from the publisher.

The use of general descriptive names, trade names, trade marks, etc., in this publication, even if the former are not specifically identified, is not to be taken as a sign that such names are exempt from the relevant protective laws and regulations and may accordingly be used freely by anyone.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors nor the editors nor the publisher can accept legal responsibility for errors or omissions that may have been made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special Regulations for the USA: The Article Fee Code on the first page of an article in this journal indicates the copyright owner's consent that in the USA copies may be made for personal or internal use, provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid through the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970. If a code does not appear copies of the article may be made without charge, provided permission is obtained from the publisher.

The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

Important Note for Authors: Authors of this journal can benefit from library and photocopy fees collected by VG WORT if certain conditions are met. If an author lives in the Federal Republic of Germany or in West Berlin, it is recommended that he contact Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Goethestraße 49, D-8000 München 2, for detailed information.

Springer-Verlag Berlin Heidelberg New York. Printed in Germany by aprinta, Wemding
Copyright © Springer-Verlag GmbH & Co. KG Berlin Heidelberg 1982

Contents

Review Articles

- Hansen, B., Lernmark, Å., Nielsen, J. H., Owerbach, D., Welinder, B.: New Approaches to Therapy and Diagnosis of Diabetes 61
Howell, S. L., Tyhurst, M.: Microtubules, Microfilaments and Insulin Secretion 301
Marliss, E. B., Nakhooda, A. F., Poussier, P., Sima, A. A. F.: The Diabetic Syndrome of the 'BB' Wistar Rat: Possible Relevance to Type 1 (Insulin-Dependent) Diabetes in Man 225
Tomlinson, S., Walker, S., Brown, B. L.: Calmodulin and Insulin Secretion 1
Ward, J. D.: The Diabetic Leg 141
Zimmet, P.: Type 2 (Non-Insulin-Dependent) Diabetes - An Epidemiological Overview 399

Originals

- Ahrén, B., Lundquist, L.: Glucagon Immunoreactivity in Plasma from Normal and Dystrophic Mice 258
Allgayer, H., Bachmann, W., Hepp, K. D.: Increased Dose-Response Relationship of Liver Plasma Membrane Adenylate Cyclase to Glucagon Stimulation in Diabetic Rats. A Possible Role of the Guanyl Nucleotide-Binding Regulatory Protein 464
Banks, I. G., Sloan, J. M., Buchanan, K. D.: A Histological Study of Intrahepatic Transplanted Neonatal Rat Pancreas and of Adjacent Adipose Tissue Proliferation 128
Barker, D. J. P., Gardner, M. J., Power, C.: Incidence of Diabetes Amongst People Aged 18-50 years in Nine British Towns: A Collaborative Study 421
Basdevant, A., Costagliola, D., Lanöe, J. L., Goldgewicht, C., Triomphe, A., Metz, F., Denys, H., Eschwege, E., Fardeau, M., Tchobroutsky, G.: The Risk of Diabetic Control: A Comparison of Hospital Versus General Practice Supervision 309
Becker-Zimmermann, K., Berger, M., Berchtold, P., Gries, F. A., Herberg, L., Schwenen, M.: Treadmill Training Improves Intravenous Glucose Tolerance and Insulin Sensitivity in Fatty Zucker Rats 468
Bohlen, H. G., Hankins, K. D.: Early Arteriolar and Capillary Changes in Streptozotocin-Induced Diabetic Rats and Intraperitoneal Hyperglycaemic Rats 344
Bogli, G., Calabrese, G., de Feo, P., Compagnucci, P., Zega, G., Angeletti, G., Cartechini, M. G., Santeusano, F., Brunetti, P.: Lack of Glucagon Response in Glucose Counter-Regulation in Type 1 (Insulin Dependent) Diabetics: Absence of Recovery After Prolonged Optimal Insulin Therapy 100
Boulton, A. J. M., Scarpello, J. H. B., Ward, J. D.: Venous Oxygenation in the Diabetic Neuropathic Foot: Evidence of Arteriovenous Shunting? 7
Brown, J., Heininger, D., Kuret, J., Mullen, Y.: Normal Response to Pregnancy in Rats Cured of Streptozotocin Diabetes by Transplantation of One Fetal Pancreas 273
Carini, C., Brostoff, J., Kurtz, A. B.: An Anaphylactic Reaction to Highly Purified Pork Insulin. Confirmation by RAST and RAST Inhibition 324
Coleman, D. L.: Thermogenesis in Diabetes-Obesity Syndromes in Mutant Mice 205
Dolgov, V. V., Zaikina, O. E., Bondarenko, M. F., Repin, V. S.: Aortic Endothelium of Alloxan Diabetic Rabbits: A Quantitative Study Using Scanning Electron Microscopy 338
Dorman, T. L., Carter, R. D., Bron, A. J., Turner, R. C., Mann, J. I.: Low Density Lipoprotein Cholesterol: An Association with the Severity of Diabetic Retinopathy 167
Edmonds, M. E., Roberts, V. C., Watkins, P. J.: Blood Flow in the Diabetic Neuropathic Foot 10
Efendić, S., Grill, V., Nylen, A., Östensson, C. G.: Difference in Calcium Dependency of Insulin, Glucagon and Somatostatin Secretion in Response to Glibenclamide in Perfused Rat Pancreas 475
Faerman, I., Faccio, E., Calb, I., Razumny, J., Franco, N., Dominguez, A., Podesta, H. A.: Autonomic Neuropathy in the Skin: A Histological Study of the Sympathetic Nerve Fibres in Diabetic Anhidrosis 96

- Falholt, K.: Determination of Insulin Specific IgE in Serum of Diabetic Patients by Solid-Phase Radioimmunoassay 254
- Fraser, R. B.: The Fate of the Pregnant Diabetic in a Developing Country: Kenya 22
- Fugleberg, S., Kolendorf, K., Thorsteinsson, B., Bliddal, H., Lund, B., Bojsen, F.: Relationship Between Plasma Concentration and Plasma Disappearance Rate of Immunoreactive Insulin in Normal Subjects 437
- Harrison, L. C., Itin, A., Kasuga, M., Van Obberghen, E.: The Insulin Receptor on the Human Lymphocyte: Insulin-Induced Down-Regulation of 126,000 and 90,000 Glycosylated Subunits 233
- Hilsted, J., Galbo, H., Christensen, N. J., Parving, H.-H., Benn, J.: Haemodynamic Changes During Graded Exercise in Patients with Diabetic Autonomic Neuropathy 318
- Home, P. D., Massi-Benedetti, M., Shepherd, G. A. A., Hanning, I., Alberti, K. G. M. M., Owens, D. R.: A Comparison of the Activity and Disposal of Semi-Synthetic Human Insulin and Porcine Insulin in Normal Man by the Glucose Clamp Technique 42
- Jarret, R. J., McCartney, P., Keen, H.: The Bedford Survey: Ten Year Mortality Rates in Newly Diagnosed Diabetes, Borderline Diabetics and Normoglycaemic Controls and Risk Indices for Coronary Heart Disease in Borderline Diabetics 79
- Jenkins, D. J. A., Ghafari, H., Wolever, T. M. S., Taylor, R. H., Jenkins, A. L., Barker, H. M., Fielden, H., Bowling, A. C.: Relationship Between Rate of Digestion of Foods and Post-Prandial Glycaemia 450
- Kalant, N., Leibovici, D., Fukushima, N., Kuyumjian, J., Ozaki, S.: Insulin Responsiveness of Superficial Forearm Tissues in Type 2 (Non-Insulin Dependent) Diabetes 239
- Kang, S. S., Fears, R., Noiro, S., Mbanya, J. N., Yudkin, J.: Changes in Metabolism of Rat Kidney and Liver Caused by Experimental Diabetes and by Dietary Sucrose 285
- Keen, H., Jarrett, R. J., McCartney, P.: The Ten-Year Follow-up of the Bedford Survey (1962-1972): Glucose Tolerance and Diabetes 73
- Kromann, H., Christy, M., Lernmark, Å., Nedergaard, M., Nerup, J.: The Low Dose Streptozotocin Murine Model of Type 1 (Insulin-Dependent) Diabetes Mellitus: Studies in Vivo and in Vitro of the Modulating Effect of Sex Hormones 194
- Larinkari, J., Laatikainen, L., Ranta, T., Mörönen, P., Pesonen, K., Laatikainen, T.: Metabolic Control and Serum Hormone Levels in Relation to Retinopathy in Diabetic Pregnancy 327
- Lee, S. M.: The Effect of a High Fibre Diet on Diabetic Nephropathy in the db/db Mouse 349
- Leinonen, H., Matikainen, E., Juntunen, J.: Permeability and Morphology of Skeletal Muscle Capillaries in Type 1 (Insulin-Dependent) Diabetes Mellitus 158
- Levin, R. D., Kwaan, H. C., Dobbie, J. G., Fetkenhour, C. L., Traisman, H. S., Kramer, C.: Studies of Retinopathy and the Plasma Co-Factor of Platelet Hyperaggregation in Type 1 (Insulin-Dependent) Diabetic Children 445
- Lopes-Virella, M. F., Sherer, G. K., Lees, A. M., Wohltmann, H., Mayfield, R., Sagel, J., LeRoy, E. C., Colwell, J. A.: Surface Binding, Internalization and Degradation by Cultured Human Fibroblasts of Low Density Lipoproteins Isolated from Type 1 (Insulin Dependent) Diabetic Patients: Changes with Metabolic Control 430
- Madsbad, S., Krarup, T., Faber, O. K., Binder, C., Regeur, L.: The Transient Effect of Strict Glycaemic Control on B Cell Function in Newly Diagnosed Type 1 (Insulin-Dependent) Diabetic Patients 17
- Madsen, H., Kjærgaard, J.-J., Ditzel, J.: Relationship Between Glycosylation of Haemoglobin and the Duration of Diabetes: A Study During the Third Trimester of Pregnancy 38
- Mather, H. M., Levin, G. E., Nisbet, J. A., Hadley, L. A.-A., Oakley, N. W., Pilkington, T. R. E.: Diurnal Profiles of Plasma Magnesium and Blood Glucose in Diabetes 180
- Meezan, E., Freychet, P.: Binding and Degradation of 125 I-Insulin by Renal Glomeruli and Tubules Isolated from Rats 276
- Murakami, K., Taniguchi, H., Baba, S.: Presence of Insulin-Like Immunoreactivity and its Biosynthesis in Rat and Human Parotid Gland 358
- O'Dea, K., Spargo, R. M., Nestel, P. J.: Impact of Westernization on Carbohydrate and Lipid Metabolism in Australian Aborigines 148
- Okada, Y., Arima, T., Okazaki, S., Nakata, K., Yamabuki, T., Nagashima, H.: Increased 125 I-labelled Concanavalin A Binding to Erythrocytes in Diabetes Mellitus 212
- Palmer, J. P., Cooney, M. K., Ward, R. H., Hansen, J. A., Brodsky, J. B., Ray, C. G., Crossley, J. R., Asplin, C. M., Williams, R. H.: Reduced Coxsackie Antibody Titres in Type 1 (Insulin-Dependent) Diabetic Patients Presenting During an Outbreak of Coxsackie B3 and B4 Infection 426
- Pickup, J. C., Viberti, G. C., Bilous, R. W., Keen, H., Alberti, K. G. M. M., Home, P. D., Binder, C.: Safety of Continuous Subcutaneous Insulin Infusion: Metabolic Deterioration and Glycaemic Autoregulation After Deliberate Cessation of Infusion 175
- Potter, J. M., Reckless, J. P. D., Cullen, D. R.: Diurnal Variations in Blood Intermediary Metabolites in Mild Gestational Diabetic Patients and the Effects of a Carbohydrate-Restricted Diet 68
- Pujol-Borrell, R., Khoury, E. L., Bottazzo, G. F.: Islet Cell Surface Antibodies in Type 1 (Insulin-Dependent) Diabetes Mellitus: Use of Human Fetal Pancreas Cultures as Substrate 89
- Rosenstock, J., Loizou, S. A., Brajkovich, I. E., Mashiter, K., Joplin, G. F.: Effect of Acute Hyperglycaemia on Plasma Potassium and Aldosterone Levels in Type 2 (Non-Insulin-Dependent) Diabetes 184
- Salminen, S., Salminen, E., Marks, V.: The Effects of Xylitol on the Secretion of Insulin and Gastric Inhibitory Polypeptide in Man and Rats 480
- Sandahl Christiansen, J., Gammelgaard, J., Frandsen, M., Ørskov, H., Parving, H.-H.: Kidney Function and Size in Type 1 (Insulin-Dependent) Diabetic Patients Before and During Growth Hormone Administration for One Week 333
- Santos, A., Blazquez, E.: Regulatory Effect of Glucagon on Its Own Receptor Concentrations and Target-Cell Sensitivity in the Rat 362
- Sarson, D. L., Wood, S. M., Holder, D., Bloom, S. R.: The Effect of Glucose-Dependent Insulinotropic Polypeptide Infused at Physiological Concentration on the Release of Insulin in Man 34
- Sasaki, A., Suzuki, T., Horiuchi, N.: Development of Diabetes in Japanese Subjects with Impaired Glucose Tolerance: A Seven Year Follow-up Study 154
- Shafir, E., Khassis, S.: Maternal-Fetal Fat Transport Versus New Fat Synthesis in the Pregnant Diabetic Rat 111
- Shenfield, G. M., McCann, V. J., Tjokresetio, R.: Acetylator Status and Diabetic Neuropathy 441
- Smith, S. S., Bhathena, S. J., Wilkins, S. D., Recant, L.: Potassium Ion Concentration Alters Glucagon Secretion Independently of Insulin Secretion in the Isolated Rat Pancreas 188
- Sterin-Borda, L., Borda, E. S., Gimeno, M. F., Lazzari, M. A., delCastillo, E., Gimeno, A. L.: Contractile Activity and Prostacyclin Generation in Isolated Coronary Arteries from Diabetic Dogs 57
- Stickland, M. H., Perkins, C. M., Wales, J. K.: The Measurement of Haemoglobin A_{1c} by Isoelectric Focussing in Diabetic Patients 315
- Stout, R. W.: Cyclic AMP: A Potent Inhibitor of DNA Synthesis in Cultured Arterial Endothelial and Smooth Muscle Cells 52
- Strubbe, J. H.: Effects of Pancreas Transplantation on Insulin Secretion in the Rat During Digestion of Varying Glucose Loads 354
- Suarez, L., Barrett-Connor, E.: Seasonal Variation in Fasting Plasma Glucose Levels in Man 250
- Süssstrunk, H., Morell, B., Ziegler, W. H., Froesch, E. R.: Insulin Absorption from the Abdomen and the Thigh in Healthy Subjects During Rest and Exercise: Blood Glucose, Plasma Insulin, Growth Hormone, Adrenaline and Noradrenaline Levels 171
- Taskinen, M.-R., Nikkilä, E. A., Kuusi, T., Harno, K.: Lipoprotein Lipase Activity and Serum Lipoproteins in Untreated Type 2 (Insulin-Independent) Diabetes Associated with Obesity 47

- Tiengo, A., Bessiod, M., Valverde, I., Tabbi-Anneni, A., Delprato, S., Alexandre, J., Assan, R.: Absence of Islet Alpha Cell Function in Pancreatectomized Patients 26
- Tomlinson, D. R., Gillon, K. R. W., Smith, M. G.: Axonal Transport of Noradrenaline and Noradrenergic Transmission in Rats with Streptozotocin-Induced Diabetes 199
- Vesely, D. L.: Direct Effect of Glibenclamide on Guanylate Cyclase Activity in the Rat in Vitro 269
- Vialettes, B., Vovan, L., Simon, M. C., Lassmann, V., Altomare, E., Vague, Ph.: Kinetics of Fast Haemoglobin in Diabetic Rats 264
- Walford, S., Allison, S. P., Reeves, W. G.: The Effect of Insulin Antibodies on Insulin Dose and Diabetic Control 106
- Werther, G. A., Turner, R. C., Jenkins, P. A., Baum, J. D.: Twenty-Four Hour Profiles of Plasma C-Peptide in Type 1 (Insulin-Dependent) Diabetic Children 245
- West, K. M., Ahuja, M. M. S., Bennett, P. H., Grab, B., Grabauskas, V., Mateo-de-Acosta, O., Fuller, J. H., Jarrett, R. J., Keen, H., Kosaka, K., Krolewski, A. S., Miki, E., Schliack, V., Teuscher, A.: Interrelationships of Microangiopathy, Plasma Glucose and Other Risk Factors in 3,583 Diabetic Patients: A Multinational Study 412
- Wieling, W., van Brederode, J. F. M., de Rijk, L. G., Borst, C., Dunning, A. J.: Reflex Control of Heart Rate in Normal Subjects in Relation to Age: A Data Base for Cardiac Vagal Neuropathy 163
- Wiley, M. H., Feingold, K. R., Howton, M. M., Siperstein, M. D.: The Effect of Diabetes on Mevalonate Metabolism in the Rat 118
- Wolf, E., Cudworth, A. G., Markwick, J. R., Gorsuch, A. N., Spencer, K. M., Bodansky, H. J.: The BF System in Diabetes - Gene Interaction or Linkage Disequilibrium? 85
- Wolf, H. P. O., Eistetter, K., Ludwig, G.: Phenylalkyloxirane Carboxylic Acids, a New Class of Hypoglycaemic Substances: Hypoglycaemic and Hypoketonaemic Effects of Sodium 2-[5-(4-Chlorophenyl)-pentyl]oxirane-2-carboxylate (B 807-27) in Fasted Animals 456
- Wolters, G. H. J., Wiegman, J. B., Konijnendijk, W.: The Effect of Glucose Stimulation on Calcium Uptake of Rat Pancreatic Islets and Their Total Calcium Content as Measured by a Fluorometric Micro-Method 122

Short Communications

- Adner, N., Nygren, A.: Insulin Effect in Chronic Alcoholics During Alcohol Withdrawal 215
- Budowle, B., Reinauer, P. J., Barger, B. O., Go, R. C. P., Roseman, J. M., Acton, R. T.: Properdin Factor B in Black Type 1 (Insulin-Dependent) Diabetic Patients 483
- Ehrlich, R. M., Walsh, L. J., Falk, J. A., Middleton, P. J., Simpson, N. E.: The Incidence of Type 1 (Insulin-Dependent) Diabetes in Toronto 289
- Frankel, B. J., Heldt, A. M., Grodsky, G. M.: Insulin and Glucagon Release in the Diabetic Chinese Hamster: Differences Among Inbred Sublines 292
- Kuzuya, T., Matsuda, A.: Family Histories of Diabetes Among Japanese Patients with Type 1 (Insulin-Dependent) and Type 2 (Non-Insulin-Dependent) Diabetes 372
- Pierluissi, J., Pierluissi, R., Ashcroft, S. J. H.: Effects of Hypophysectomy and Growth Hormone on Cultured Islets of Langerhans of the Rat 134
- Sakurami, T., Nabeya, N., Nagaoka, K., Matsumori, A., Kuno, S., Honda, A.: Antibodies to Coxsackie B Viruses and HLA in Japanese with Juvenile-Onset Type 1 (Insulin-Dependent) Diabetes Mellitus 375
- Schienger, J. L., Anceau, A., Chabrier, G., North, M. L., Stephan, F.: Effect of Diabetic Control on the Level of Circulation Thyroid Hormones 486
- Stalenhoef, A. R. H., Demacker, P. N. M., Lutterman, J. A., van 't Laar, A.: Apolipoprotein C in Type 2 (Non-Insulin-Dependent) Diabetic Patients with Hypertriglyceridaemia 489

- Vannini, P., Marchesini, G., Forlani, G., Angiolini, A., Ciavarella, A., Zoli, M., Pisi, E.: Branched-Chain Amino Acids and Alanine as Indices of the Metabolic Control in Type 1 (Insulin-Dependent) and Type 2 (Non-Insulin-Dependent) Diabetic Patients 217

Letters to the Editor

- Albisser, A. M.: Pancreatic Transplantation and the Artificial Pancreas 299
- Beautyman, W.: Red Cell Volume in Diabetes 220
- Ceriello, A., Dello Russo, P., Sgambato, S., Giugliano, D.: Glycosylated Haemoglobin and Reticulocyte Count in Diabetes 223
- Ceriello, A., Giugliano, D., Dello Russo, P., Sgambato, S., D'Onofrio, F.: Increased Glycosylated Haemoglobin A_{1c} in Opiate Addicts: Evidence for a Hyperglycaemic Effect of Morphine 379
- Danielsen, R., Helgason, T., Arnason, A., Jonasson, F.: HLA and Retinopathy in Type 1 (Insulin-Dependent) Diabetic Patients in Iceland 297
- Ernst, E.: Red Cell Volume in Diabetes 220
- Garcia-Webb, P., Bonser, A., Welborn, T. A.: Correlation Between Fasting Serum C-Peptide and B-Cell Insulin Secretory Capacity in Diabetes Mellitus 296
- Gragnoli, G., Tanganelli, I., Signorini, A. M., Tarli, P.: Non-Enzymatic Glycosylation of Serum Proteins as an Indicator of Diabetic Control 224
- Jarrett, R. J.: HDL Cholesterol and Fasting Insulin Levels 493
- Paisey, R., Valles, V., Arredondo, G., Wong, W., Lorano-Castaneda, O.: Measurement of Glycosylated Haemoglobin at High Altitudes 493
- Pitkänen, E., Hulmi, S.: Long-Term Subcutaneous Insulin Infusion Therapy and Progression of Nephropathy in Type 1 (Insulin-Dependent) Diabetes 378
- Sachse, G., Laube, H., Mäser, E., Federlin, K.: Effect of a Long-Term Acarbose Therapy on the Metabolic Control of Sulphonylurea-Treated Diabetic Patients 221
- Sandahl Christiansen, J., Parving, H. H.: The Relationship Between Kidney Size and Function in Short-term Diabetic Patients 494
- Stevenson, R. W.: Subcutaneous Degradation of Insulin 221
- Toledo-Pereyra, L. H.: Criteria for Patient Selection for Pancreatic Transplantation 298
- Van Gaal, L., de Leeuw, I.: Glucagon and Hyperkalaemia in Decompensated Diabetes 492

Abstracts

- Abstracts. Meeting of the Medical and Scientific Section of the British Diabetic Association, Keele, March 19-20, 1982 381

Book Reviews

138, 497

Organization Section

60, 139, 380, 498

Erratum

224, 300

Announcements

224, 300

Author Index and Subject Index are published on page 499-504 at the end of the volume

